

Table ENG-4. - Building Site Development

City of Richmond, Virginia

The information in this table indicates the dominant soil condition, but does not eliminate the need for onsite investigation. The numbers in the value column range from 0.01 to 1.00. The larger the value, the greater the potential limitation. Limiting features in this report are limited to the top 5 limitations. Additional limitations may exist.

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1B: Abell	85	Not limited		Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	
2B: Appling	85	Not limited		Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Somewhat limited Content of large stones Gravel content	0.08 0.01
3B: Appling	85	Not limited		Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
3C: Appling	85	Somewhat limited Slope	0.04	Somewhat limited Too clayey Cutbanks cave Slope	0.28 0.10 0.04	Somewhat limited Slope	0.04
3D: Appling	85	Very limited Slope	1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope	1.00
4C: Appling	45	Somewhat limited Slope	0.04	Somewhat limited Too clayey Cutbanks cave Slope	0.28 0.10 0.04	Somewhat limited Slope	0.04
Wedowee	40	Somewhat limited Low strength Slope	0.78 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
4D: Appling	45	Very limited Slope	1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope	1.00

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
4D:							
Wedowee	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	0.78	Cutbanks cave	0.10		
5A:							
Atlee	85	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to cemented pan	0.97
		Depth to saturated zone	0.19	Cutbanks cave	0.10	Droughty	0.88
						Depth to saturated zone	0.19
6A:							
Augusta	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.75	Depth to saturated zone	1.00	Depth to saturated zone	0.75
				Cutbanks cave	0.10		
7B:							
Bourne	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.97	Depth to thick cemented pan	1.00	Depth to cemented pan	0.97
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty	0.49
				Depth to dense layer	0.50	Depth to saturated zone	0.19
7C:							
Bourne	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.97	Depth to thick cemented pan	1.00	Depth to cemented pan	0.97
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty	0.49
		Slope	0.04	Depth to dense layer	0.50	Depth to saturated zone	0.19
8C:							
Cecil	85	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.72	Slope	0.04
		Slope	0.04	Cutbanks cave	0.10		
				Slope	0.04		
8D:							
Cecil	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.72		
				Cutbanks cave	0.10		
9A:							

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
9A:							
Chastain	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Flooding	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Low strength	1.00	Flooding	0.80		
Nawney	6	Not Rated		Not Rated		Not Rated	
Johnston	4	Not Rated		Not Rated		Not Rated	
10A:							
Chewacla	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
				Flooding	0.80		
Chastain	6	Not Rated		Not Rated		Not Rated	
Johnston	4	Not Rated		Not Rated		Not Rated	
11B:							
Colfax	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Depth to cemented pan	0.90
				Cutbanks cave	0.10	Droughty	0.18
Worsham	3	Not Rated		Not Rated		Not Rated	
12C:							
Colfax	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.04	Depth to thin cemented pan	0.90	Depth to cemented pan	0.90
				Cutbanks cave	0.10	Droughty	0.18
				Slope	0.04	Slope	0.04
Worsham	3	Not Rated		Not Rated		Not Rated	
13A:							
Dogue	85	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.03
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Flooding	0.40	Too clayey	0.03		
14A:							

Table ENG-4. - Building Site Development - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
14A:							
Dunbar	85	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.48
		Shrink-swell	0.50	Too clayey	0.28		
		Depth to saturated zone	0.48	Cutbanks cave	0.10		
Pouncey	3	Not Rated		Not Rated		Not Rated	
15B:							
Durham	45	Not limited		Somewhat limited		Not limited	
				Cutbanks cave	0.10		
Bourne	40	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.97	Depth to thick cemented pan	1.00	Depth to cemented pan	0.97
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty	0.49
				Depth to dense layer	0.50	Depth to saturated zone	0.19
16B:							
Edgehill	85	Somewhat limited		Very limited		Very limited	
		Shrink-swell	0.50	Cutbanks cave	1.00	Gravel content	1.00
				Too clayey	0.13	Droughty	0.07
						Content of large stones	<0.01
16C:							
Edgehill	85	Somewhat limited		Very limited		Very limited	
		Shrink-swell	0.50	Cutbanks cave	1.00	Gravel content	1.00
		Slope	0.04	Too clayey	0.13	Droughty	0.07
				Slope	0.04	Slope	0.04
16D:							
Edgehill	85	Very limited		Very limited		Very limited	
		Slope	1.00	Cutbanks cave	1.00	Slope	1.00
		Shrink-swell	0.50	Slope	1.00	Gravel content	1.00
				Too clayey	0.13	Droughty	0.07
16E:							
Edgehill	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	1.00	Gravel content	1.00
				Too clayey	0.13	Droughty	0.07
17B:							
Faceville	85	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.13		
				Cutbanks cave	0.10		

17C:

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
17C:							
Faceville	85	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.13	Slope	0.04
		Slope	0.04	Cutbanks cave	0.10		
				Slope	0.04		
17D:							
Faceville	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.13		
				Cutbanks cave	0.10		
18B:							
Faceville	50	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.13		
				Cutbanks cave	0.10		
Gritney	35	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated	1.00	Depth to saturated	0.75
		Depth to saturated zone	0.75	Cutbanks cave	1.00		
		Shrink-swell	0.50	Too clayey	0.28		
18C:							
Faceville	50	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.13	Slope	0.04
		Slope	0.04	Cutbanks cave	0.10		
				Slope	0.04		
Gritney	35	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated	1.00	Depth to saturated	0.75
		Depth to saturated zone	0.75	Cutbanks cave	1.00	Slope	0.04
		Shrink-swell	0.50	Too clayey	0.28		
19C:							
Grover	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.04	Cutbanks cave	0.10	Slope	0.04
				Slope	0.04		
19D:							
Grover	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10		
19E:							
Grover	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10		

20C:

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
20C:							
Grover	50	Somewhat limited Slope	0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
Wateree	30	Somewhat limited Slope	0.04	Somewhat limited Depth to soft bedrock Cutbanks cave Slope	0.97 0.10 0.04	Somewhat limited Depth to bedrock Droughty Slope	0.97 0.90 0.04
21A:							
Johnston	85	Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00
Chastain	5	Not Rated		Not Rated		Not Rated	
Nawney	4	Not Rated		Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated		Not Rated	
22B:							
Kempsville	85	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
23B:							
Kempsville	45	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
Bourne	40	Somewhat limited Depth to thick cemented pan Depth to saturated zone	0.97 0.19	Very limited Depth to thick cemented pan Depth to saturated zone Depth to dense layer	1.00 1.00 0.50	Somewhat limited Depth to cemented pan Droughty Depth to saturated zone	0.97 0.49 0.19
24B:							
Masada	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.13 0.10	Not limited	
24C:							
Masada	85	Very limited Low strength Slope	1.00 0.04	Somewhat limited Too clayey Cutbanks cave Slope	0.13 0.10 0.04	Somewhat limited Slope	0.04
25B:							

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
25B:							
Masada	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.13 0.10	Somewhat limited Gravel content	0.60
25C:							
Masada	85	Very limited Low strength Slope	1.00 0.04	Somewhat limited Too clayey Cutbanks cave Slope	0.13 0.10 0.04	Somewhat limited Gravel content Slope	0.60 0.04
26A:							
Nawney	75	Very limited Depth to saturated zone Flooding Low strength	1.00 1.00 0.78	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
Chastain	6	Not Rated		Not Rated		Not Rated	
Johnston	5	Not Rated		Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated		Not Rated	
27B:							
Norfolk	85	Not limited		Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
28B:							
Orangeburg	50	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Faceville	35	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.13 0.10	Not limited	
28C:							
Orangeburg	50	Very limited Low strength Slope	1.00 0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
Faceville	35	Very limited Low strength Slope	1.00 0.04	Somewhat limited Too clayey Cutbanks cave Slope	0.13 0.10 0.04	Somewhat limited Slope	0.04
29B:							

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
29B:							
Pouncey	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to hard bedrock	1.00	Depth to saturated zone	1.00
		Depth to hard bedrock	0.46	Depth to saturated zone	1.00	Depth to bedrock	0.46
		Flooding	0.40	Too clayey	0.13	Droughty	0.38
Worsham	3	Not Rated		Not Rated		Not Rated	
30A:							
Riverview	85	Very limited		Somewhat limited		Very limited	
		Flooding	1.00	Flooding	0.80	Flooding	1.00
		Low strength	1.00	Depth to saturated zone	0.16		
				Cutbanks cave	0.10		
Chewacla	3	Not Rated		Not Rated		Not Rated	
31A:							
Roanoke	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10		
32A:							
Roanoke	40	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10		
Chewacla	35	Very limited		Very limited		Very limited	
		Flooding	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.22
		Depth to saturated zone	0.22	Flooding	0.80		
				Cutbanks cave	0.10		
33B:							
Slagle	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.03	Depth to saturated zone	1.00	Depth to saturated zone	0.03
				Cutbanks cave	0.10		
34B:							
Tetotum	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Depth to saturated zone	0.19
				Cutbanks cave	0.10		
				Too clayey	0.02		

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
35A: Toccoa	85	Very limited Flooding	1.00	Somewhat limited Flooding Depth to saturated zone Cutbanks cave	0.80 0.73 0.10	Very limited Flooding	1.00
36A: Tomotley	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Very limited Depth to saturated zone	1.00
37B: Turbeville	85	Not limited		Very limited Cutbanks cave Too clayey	1.00 0.13	Not limited	
37C: Turbeville	85	Somewhat limited Slope	0.04	Very limited Cutbanks cave Too clayey Slope	1.00 0.13 0.04	Somewhat limited Slope	0.04
38B: Turbeville	85	Not limited		Very limited Cutbanks cave Too clayey	1.00 0.13	Somewhat limited Gravel content	0.26
38C: Turbeville	85	Somewhat limited Slope	0.04	Very limited Cutbanks cave Too clayey Slope	1.00 0.13 0.04	Somewhat limited Gravel content Slope	0.26 0.04
39: Udorthents	85	Not Rated		Not Rated		Not Rated	
40: Udorthents	45	Not Rated		Not Rated		Not Rated	
Dumps	40	Not Rated		Not Rated		Not Rated	
41: Urban land	85	Not Rated		Not Rated		Not Rated	
42A:							

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
42A: Varina	85	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone Too clayey Cutbanks cave	0.61 0.28 0.10	Not limited	
43C: Wateree	85	Not limited		Somewhat limited Depth to soft bedrock Cutbanks cave	0.97 0.10	Depth to bedrock Droughty	0.97 0.90
43D: Wateree	85	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.97 0.10	Very limited Slope Depth to bedrock Droughty	1.00 0.97 0.90
44E: Wateree	55	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.97 0.10	Very limited Slope Depth to bedrock Droughty	1.00 0.97 0.90
Appling	45	Very limited Slope	1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope	1.00
45F: Wateree	55	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.97 0.10	Very limited Slope Depth to bedrock Droughty	1.00 0.97 0.90
Appling	35	Very limited Slope	1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Slope	1.00
Rock outcrop	10	Not Rated		Not Rated		Not Rated	
46E: Wedowee	85	Very limited Slope Low strength	1.00 0.78	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Gravel content	1.00 0.08
47A:							

Table ENG-4. - Building Site Development - Continued

City of Richmond, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
47A:							
Worsham	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50	Too clayey	0.03		
Pouncey	3	Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	